

APPENDIX "B"

PANLABS LIGAND RECEPTOR ASSAY LIST:

Drug screening labs such as Panlabs and Novascreen provide a service to check the specificity of drug leads at different receptor targets. The list of radio ligand receptor binding assays is set forth below. This information can be found on the world wide web at:

<http://www.panlabs.com/prod/a-pharm-asy-1st0.html>

Radioligand Binding Assays

Please note for this section:

- 10 Our standard procedure is to assay at the initial recommended concentration in duplicate; if active (50%), concentration responses are carried out to determine $IC_{50} \pm SEM$... (n=34 tubes). Other testing options are listed below.
- 15 1)Primary Screening and Quantitative Analysis (active compounds only):
 $IC_{50} \pm SEM$, K_i , nH in Radioligand Binding Assays; $IC_{50} \pm SEM$ in Enzyme Assays, n=34 tubes per assay
 2)Primary Screening and Semi-Quantitative Analysis: (10-5M and confirmation; 10-6, 10-7, 10-8M), n=10 tubes per assay
 3)Three Point Primary Screen: (10-5, 10-7, 10-9M), n=6 tubes per assay
 20 4)Primary Screen Only: (10-5 M), n=2 tubes per assay

\$/Tube

- Adenosine
 A1 (rat) \$30
 A2A (rat) \$30
 25 A3 (human) \$50
 Uptake Transporter (guinea pig) \$40
 Adrenergic
 alpha1A (human) \$50
 alpha1B (rat) \$30
 30 alpha1, Non-Selective (rat) \$30
 alpha2A (human) \$50
 alpha2B (rat) \$30
 alpha2C (human) \$50
 alpha2, Non-Selective (rat) \$30
 35 beta1 (human) \$50
 beta2 (human) \$50
 beta3 (human) \$50
 beta, Non-Selective (rat) \$30

- Norepinephrine Transporter (rat) \$40
- Angiotensin
- AT1 (rabbit) \$40
- AT2 (rabbit) \$40
- 5 Atrial Natriuretic Factor (guinea pig) \$30
- Bombesin (rat) \$40
- Bradykinin
- B1 (human) \$50
- B2 (guinea pig) \$40
- 10 Calcitonin (human) \$40
- Calcitonin Gene Related Peptide (rat) \$40
- Ca²⁺ Channel
- Type L, Benzothiazepine (rat) \$30
- Type L, Dihydropyridine (rat) \$30
- 15 Type L, Phenylalkylamine (rat) \$30
- Type N (rat) \$40
- Cannabinoid
- CB1 (human) \$50
- CB2 (human) \$50
- 20 Cholecystokinin
- CCKA (human) \$50
- CCKB (human) \$50
- Choline Transporter (rat) \$40
- Dopamine
- 25 D1 (human) \$50
- D2S (human) \$50
- D3 (human) \$50
- D4.2 (human) \$50
- D4.4 (human) \$50
- 30 D4.7 (human) \$50
- D5 (human) \$50
- Transporter (rat) \$40
- Endothelin
- ETA (rat) \$40
- 35 ETB (human) \$50
- Epidermal Growth Factor (human) \$40
- Estrogen (bovine) \$40
- GABA Transporter (rat) \$40
- GABAA
- 40 Agonist Site (rat) \$30
- Benzodiazepine, Central (rat) \$30
- Benzodiazepine, Peripheral (rat) \$30
- Chloride Channel, TBOB (rat) \$40
- GABAB (rat) \$30
- 45 Galanin (rat) \$40
- Glucocorticoid (human) \$40
- Glutamate
- AMPA (rat) \$30
- Kainate (rat) \$30

- Platelet Activating Factor (rabbit) \$30
Platelet-Derived Growth Factor (mouse) \$50
Potassium Channel
[KA] (rat) \$30
5 [KATP] (hamster) \$30
[KV] (rat) \$40
[SKCa] (rat) \$40
Progesterone (bovine) \$40
Purinergic P2X (rabbit) \$30
10 Serotonin
5-HT1 (rat) \$30
5-HT1A (human) \$50
5-HT2 (rat) \$30
5-HT3 (rabbit) \$30
15 5-HT4 (guinea pig) \$30
5-HT6 (human) \$50
5-HT7 (human) \$50
Transporter (rat) \$40
Sigma
20 sigma 1 (guinea pig) \$30
sigma 2 (rat) \$30
Non-Selective (guinea pig) \$30
Sodium Channel, Site 2 (rat) \$40
Somatostatin (mouse) \$40
25 Testosterone (rat) \$40
Thromboxane A2 (rabbit) \$30
Thyrotropin Releasing Hormone (rat) \$40
Transforming Growth Factor-beta (mouse) \$40
Tumor Necrosis Factor TNF-alpha (human) \$40
30 Vasoactive Intestinal Peptide VIP1 (human) \$50
Vasopressin V1 (rat) \$40